WHAT IS CLAIMED IS:

1. A data encipher/decipher system for a portable rack of a computer, comprising:

    a storage device, being disposed in and fixedly attached to the portable rack;

    a circuit board, being disposed at a rear side of the portable rack, being attached with a signal connector at a back thereof for separating a signal into a delay connector with a standard IDE interface and a power source plug, providing at least two connecting wires extending outward the portable rack, and having a signal line;

    an encipher/decipher device, being a control IC with a specific built in logic operation symbol or with an equation operation device, being mounted on the circuit board to connect with the signal line;

    an unlock receptacle, being disposed at an outer side of the portable rack to connect with the signal line; and

    a unlock key with an inner unlock chip, providing a unlock plug at an end thereof for being inserted into the unlock receptacle;

    whereby, once the delay connector and the power source plug are connected to the storage device to result in a state of signal on and power on, the control IC performs a procedure of identifying a password of the unlock key as soon as the unlock key is inserted into the unlock receptacle; and if the password of the unlock key conforms a password of the control IC, a user can read data in the storage device or write data into the storage device under a condition of the data being deciphered or being in a state of encryption immediately.

2. The data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the portable rack is a mobile rack composed of an inner rack and an outer rack; the outer rack is mounted to a computer housing and the inner rack is detachably fixed to the outer rack by way of a

connector on the inner rack detachably fitting with the a connector on the outer rack.

3.   The data encipher/decipher system for a portable rack of a computer according to claim 2, wherein one of following storage devices can be selected to accommodate to the mobile rack: a hard disk, a zip disk drive, a magneto-optical disk drive, a tape unit and a card read.

4.   The data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the portable rack is an external rack.

5.   The data encipher/decipher system for a portable rack of a computer according to claim 4, wherein one of following storage devices can be selected to accommodate to the external rack: a compact disk rewriter, a hard disk, a zip disk drive, a magneto-optical disk drive, a tape unit and card read.

6.   The data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the circuit board further extends a plurality of lead wires to join at least two signal lights disposed on an outer side of the portable rack to indicate a status of the power source, the storage device or identifying the password.

7.   The data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the unlock receptacle is a USB receptacle or a IEEE 1394 receptacle and the unlock plug is a USB plug or a IEEE plug.